

## EN- Technical data sheet

# Stop valve with seal, electrically operated, plug-in motor

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## Article code

|           |          |          |                 |
|-----------|----------|----------|-----------------|
| <b>20</b> | <b>2</b> | <b>1</b> | <b>2178/24V</b> |
|-----------|----------|----------|-----------------|

①

②

③

④

①

### Diameter

|           |        |
|-----------|--------|
| <b>08</b> | DN 80  |
| <b>10</b> | DN 100 |
| <b>12</b> | DN 120 |
| ...       |        |
| <b>20</b> | DN 200 |

②

### Thickness

|          |                              |
|----------|------------------------------|
| <b>1</b> | 1.5 mm ( <i>DN 80 only</i> ) |
| <b>2</b> | 2.0 mm                       |

③

### Surface

|          |                       |
|----------|-----------------------|
| <b>1</b> | 1.0330, powder-coated |
| <b>2</b> | 1.4301, shot-blasted  |

④

### Article group

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| <b>2178/24V</b>  | Stop valve with seal, electrically operated, plug-in motor, 24V  |
| <b>2178/230V</b> | Stop valve with seal, electrically operated, plug-in motor, 230V |

# 1 Technical data

|                                    |                                                                                                                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Area of application and use</b> | Dust-tight shut-off (OPEN / CLOSED) of air volume flows in ventilation systems by operating the flap.<br>The actuation time depends on the drive. <i>(see table 1.1 Actuation, p.3)</i> |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                   |                                                                           |
|-------------------|---------------------------------------------------------------------------|
| <b>Connection</b> | Both sides with flanged edge ( <i>lips</i> ) for clamping ring connection |
|-------------------|---------------------------------------------------------------------------|

| <b>Materials</b>  |                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------|
| <b>Case</b>       | According to article number 1.0330 (DC01) or 1.4301 (X5CrNi18-10) in specified material thickness |
| <b>Flap</b>       | Made of 1.0038 (S235JR) or 1.4301 (X5CrNi18-10) in thickness t = 4 mm                             |
| <b>Flap seal</b>  | Silicone profile seal, transparent, 60 ±5 Shore A                                                 |
| <b>Shaft seal</b> | Flat sealing ring made of silicone, transparent, 60 ±5 Shore A                                    |

| <b>Surfaces and temperature</b> |                                                                                                                                                                               |                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Surface treatment</b>        | <b>Powder Coating (1.0330)</b>                                                                                                                                                | <b>Stainless Steel Shot Blasting (1.4301)</b> |
|                                 | Standard colour:<br>RAL 7032 ("pebble grey");<br>smooth, satin-gloss, electrostatically dissipative;<br>Food physiologically harmless;<br>Average layer thickness: 30 - 60 µm | Surface roughness Ra: 1.3 µm                  |
| <b>Ambient temperature</b>      | -30°C to +50°C                                                                                                                                                                |                                               |
| <b>Product temperature*</b>     | -20°C to +120°C<br><i>(from +80°C impairment of the appearance is to be expected)</i>                                                                                         | -10°C to +180°C                               |

*\*Note: If product temperatures exceed 50°C, the manual control or drive must be insulated against heat conduction on site.*

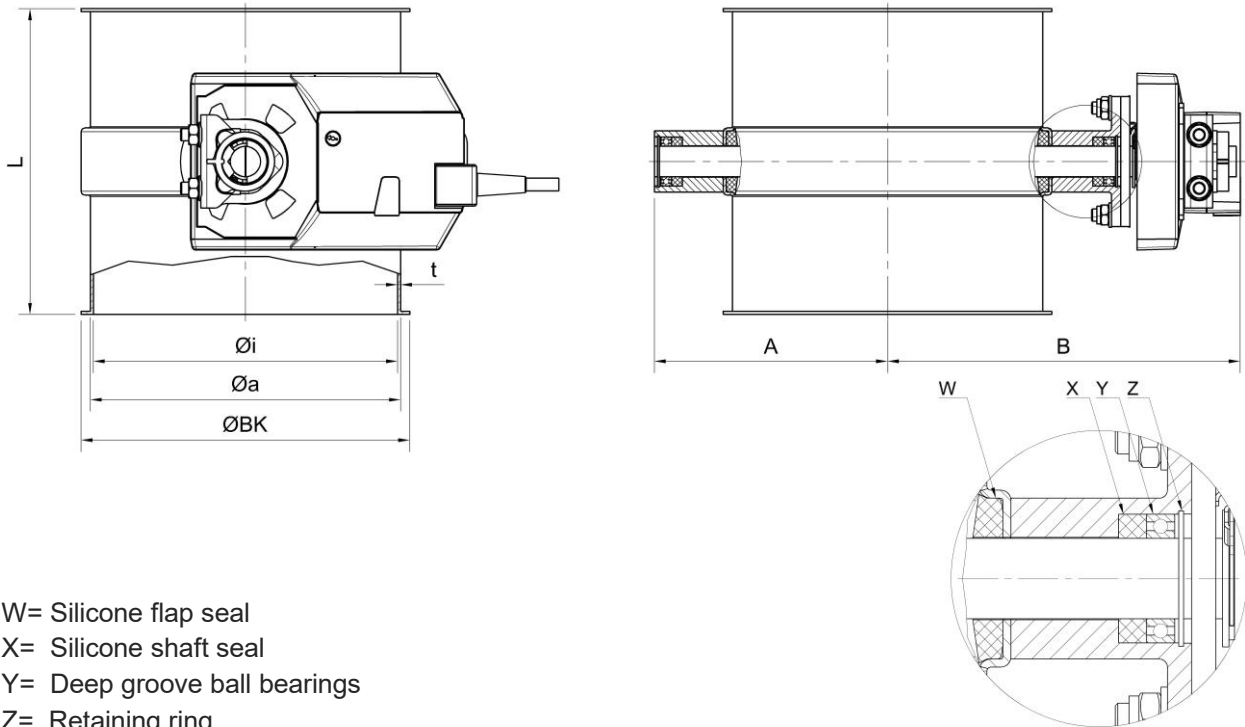
## 1.1 Actuation

| Electric plug-in motor |                                                                    |                               |
|------------------------|--------------------------------------------------------------------|-------------------------------|
| Diameter               | DN 80 – DN 200                                                     |                               |
| Nominal voltage        | 24V                                                                | 230V                          |
| Make                   | Belimo                                                             |                               |
| Type                   | GM24A                                                              | GM230A                        |
| Voltage                | 24V AC/DC (50/60 Hz)                                               | 100V to 240V AC (50/60 Hz)    |
| Power consumption      | 2W (quiet) / 4W (operating)                                        | 2.5W (quiet) / 5W (operating) |
| Torque                 | 40 Nm                                                              |                               |
| Actuation time (90°)   | 150 seconds                                                        |                               |
| Manual adjustment      | with push button, lockable                                         |                               |
| Noise level            | 45 dB                                                              |                               |
| Degree of protection   | IP54                                                               |                               |
| Ambient temperature    | -30°C to +50°C                                                     |                               |
| Electrical connection  | pre-assembled cable, length 1 m, 3-wire (3× 0.75 mm <sup>2</sup> ) |                               |

## 2 Dimensions

### Dimension table

pictured version: DN 200



W= Silicone flap seal  
 X= Silicone shaft seal  
 Y= Deep groove ball bearings  
 Z= Retaining ring

| DN  | t<br>[mm] | Øi<br>[mm] | Øa<br>[mm] | ØBK<br>[mm] | L<br>[mm] | A<br>[mm] | B<br>[mm] | m<br>[kg] |
|-----|-----------|------------|------------|-------------|-----------|-----------|-----------|-----------|
| 80  | 1,5       | 77,5       | 80,5       | 92,5        | 80        | 94,3      | 172,6     | 4,6       |
| 100 | 2         | 99         | 103        | 115         | 100       | 105,5     | 183,8     | 4,9       |
| 120 |           | 119        | 123        | 135         | 120       | 113       | 191,3     | 5,1       |
| 140 |           | 135        | 139        | 151         | 140       | 123,5     | 201,8     | 5,8       |
| 150 |           | 149        | 153        | 165         | 150       | 128       | 206,3     | 5,7       |
| 160 |           | 159        | 163        | 175         | 160       | 135,5     | 213,8     | 6,3       |
| 175 |           | 174        | 178        | 190         | 175       | 143       | 221,3     | 6,7       |
| 200 |           | 199        | 203        | 215         | 200       | 153       | 231,3     | 7,1       |

### Tolerances

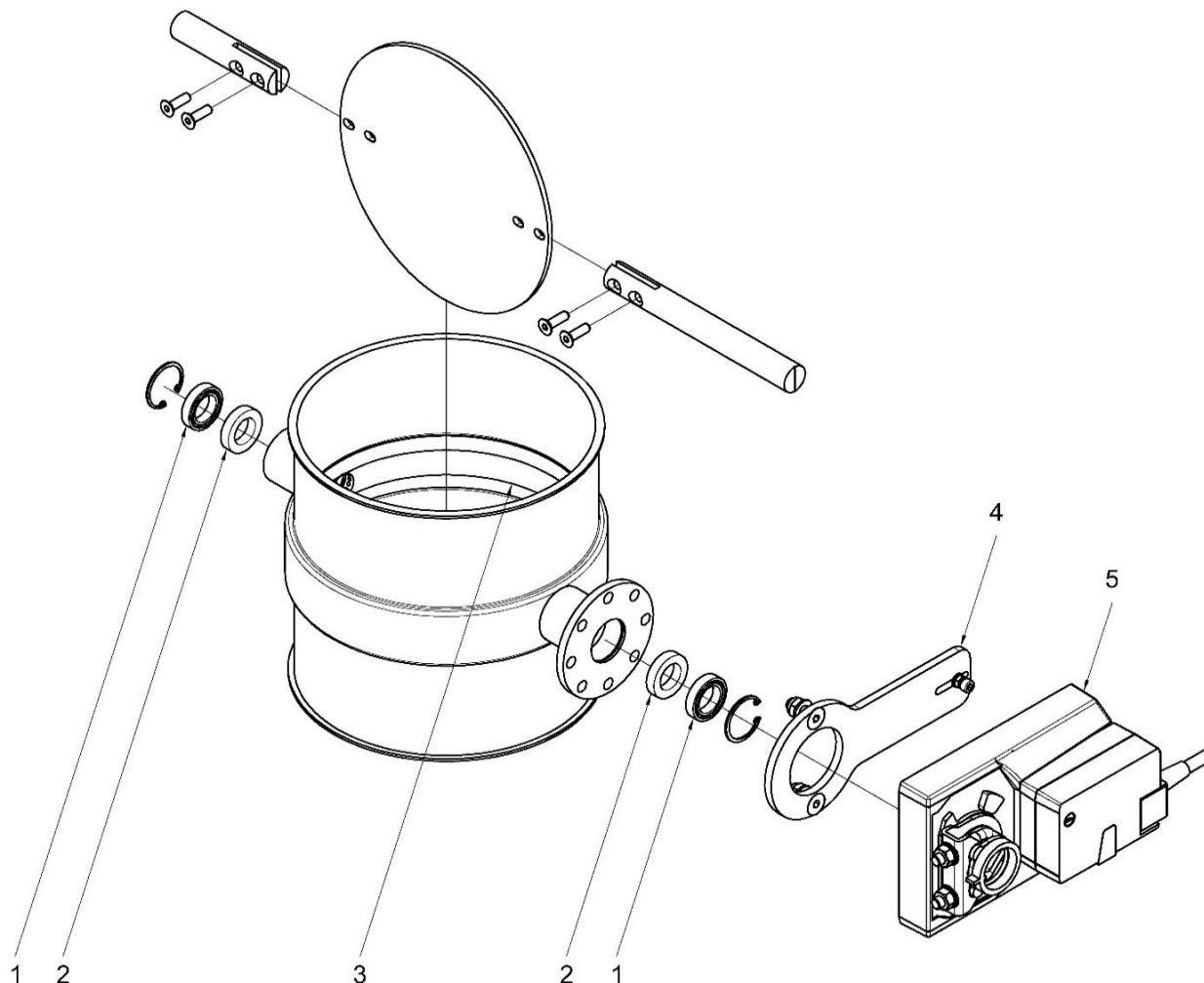
Pipe diameter and roundness according to DIN EN 10296-1:2004  
 Length and angular dimensions according to DIN ISO 2768-v (very coarse)  
 Lips: 6 mm ± 1mm

### 3D-Models

All 3D-models are available for download in our [CAD portal](#) in the common file formats.

### 3 Spare parts list

#### Exploded view



| No. | Naming                                                      | Quantity | DN 80 – DN 200          |           |
|-----|-------------------------------------------------------------|----------|-------------------------|-----------|
|     |                                                             |          | 1.0330                  | 1.4301    |
| 1   | Deep groove ball bearings <i>(for shaft diameter 20 mm)</i> | 2        | SO0128616               | SO0118470 |
| 2   | Shaft seal <i>(for shaft diameter 20 mm)</i>                | 2        | SO0118471               |           |
| 3   | Flap seal                                                   |          | <i>(see table, p.6)</i> |           |
| 4   | Mounting bracket <i>(for GM series)</i>                     | 1        | SO0129246               | SO0129247 |
| 5   | Plug-in motor <i>(GM24A)</i>                                | 1        | SO0109640               |           |
| 5   | Plug-in motor <i>(GM230A)</i>                               | 1        | SO0131356               |           |

| Flap seal (item no.: 3) |                      |                  |           |
|-------------------------|----------------------|------------------|-----------|
| DN                      | Required length [mm] | Quantity*<br>[m] | Article   |
| 80                      | 281                  | 1                | SO0116014 |
| 100                     | 352                  |                  |           |
| 120                     | 415                  |                  |           |
| 140                     | 465                  |                  |           |
| 150                     | 509                  |                  |           |
| 160                     | 540                  |                  |           |
| 175                     | 587                  |                  |           |
| 200                     | 666                  |                  |           |

*\*Note: Flap seal is offered by the meter.*